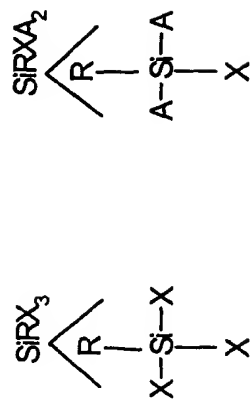
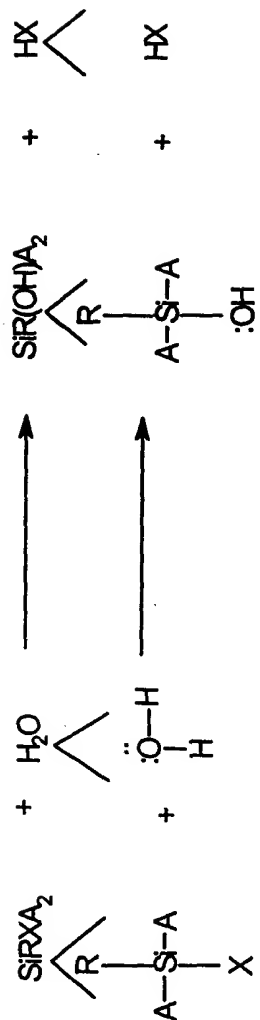


FIGURE 1: REPRESENTATIVE ORGANOSILANES



R = functional group of chemical interest  
 A = non-reactive group  
 X = hydrolyzable group

FIGURE 2: HYDROLYSIS OF AN ORGANOSILANE TO PRODUCE AN ORGANOSILANOL



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FIGURE 3: SILANOL CONDENSATION REACTION

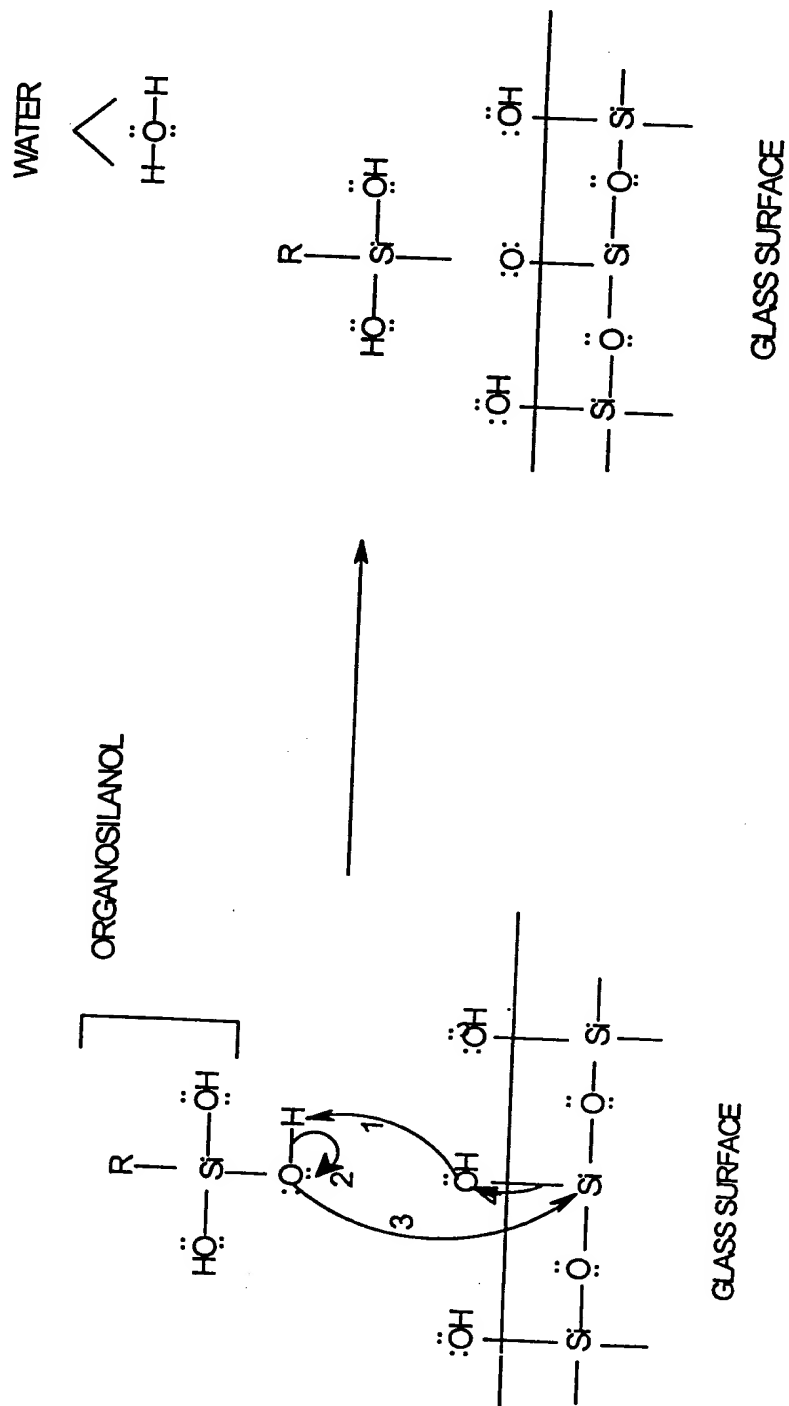
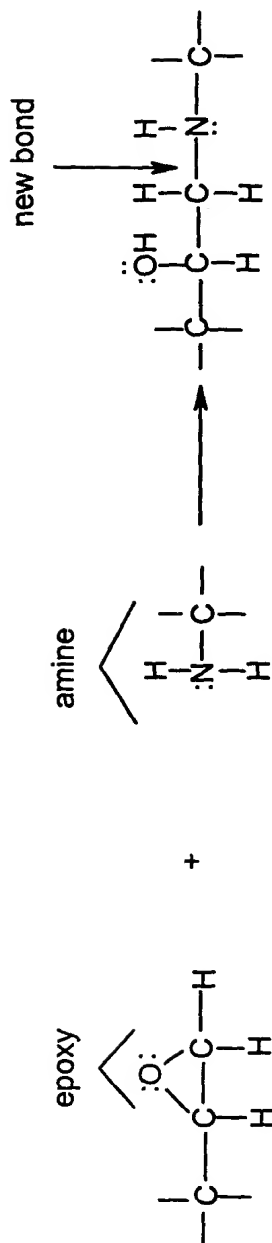
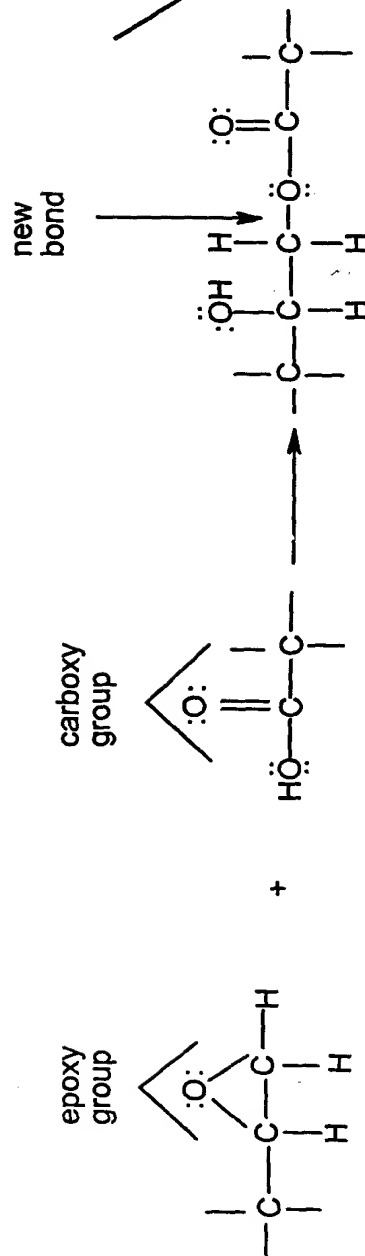


FIGURE 4: REACTIONS OF EPOXY GROUPS

A: With an amine group

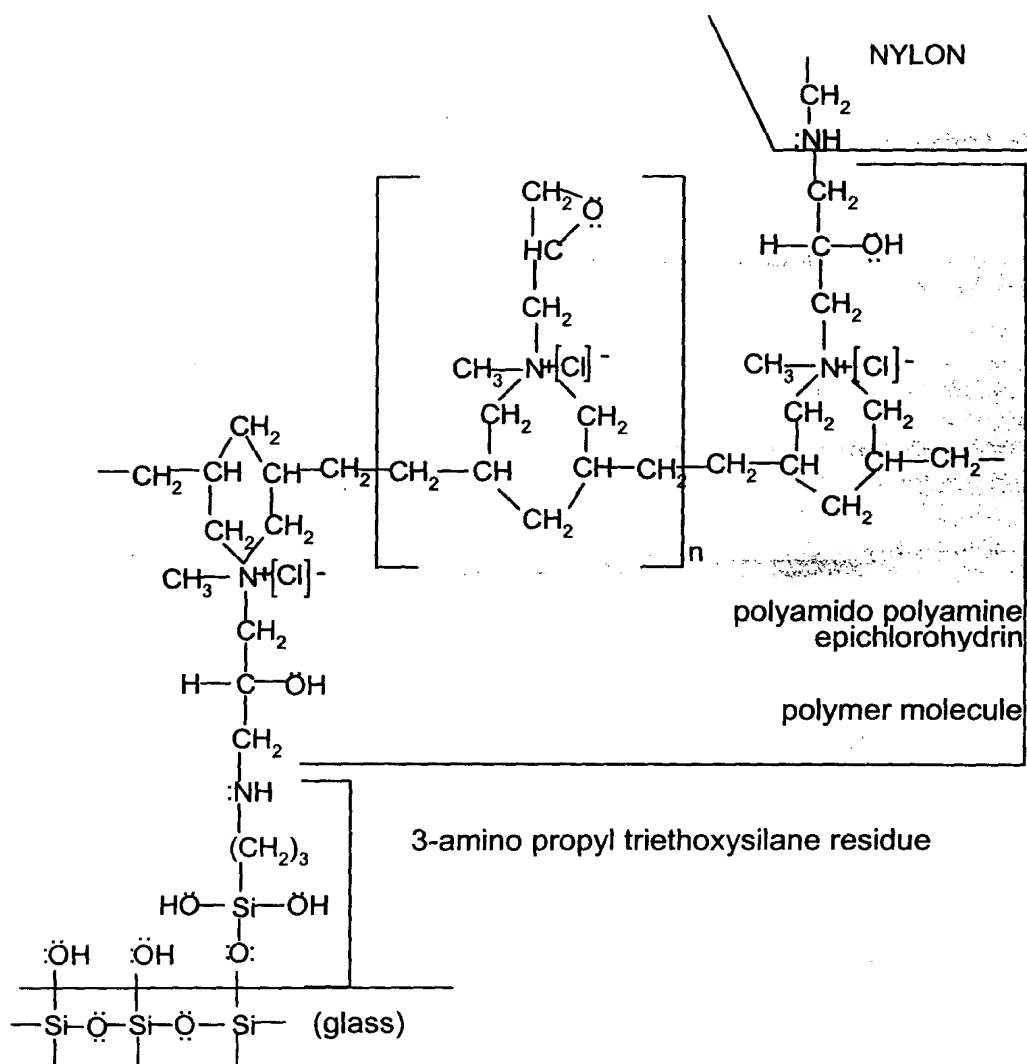


B: With a carboxyl group



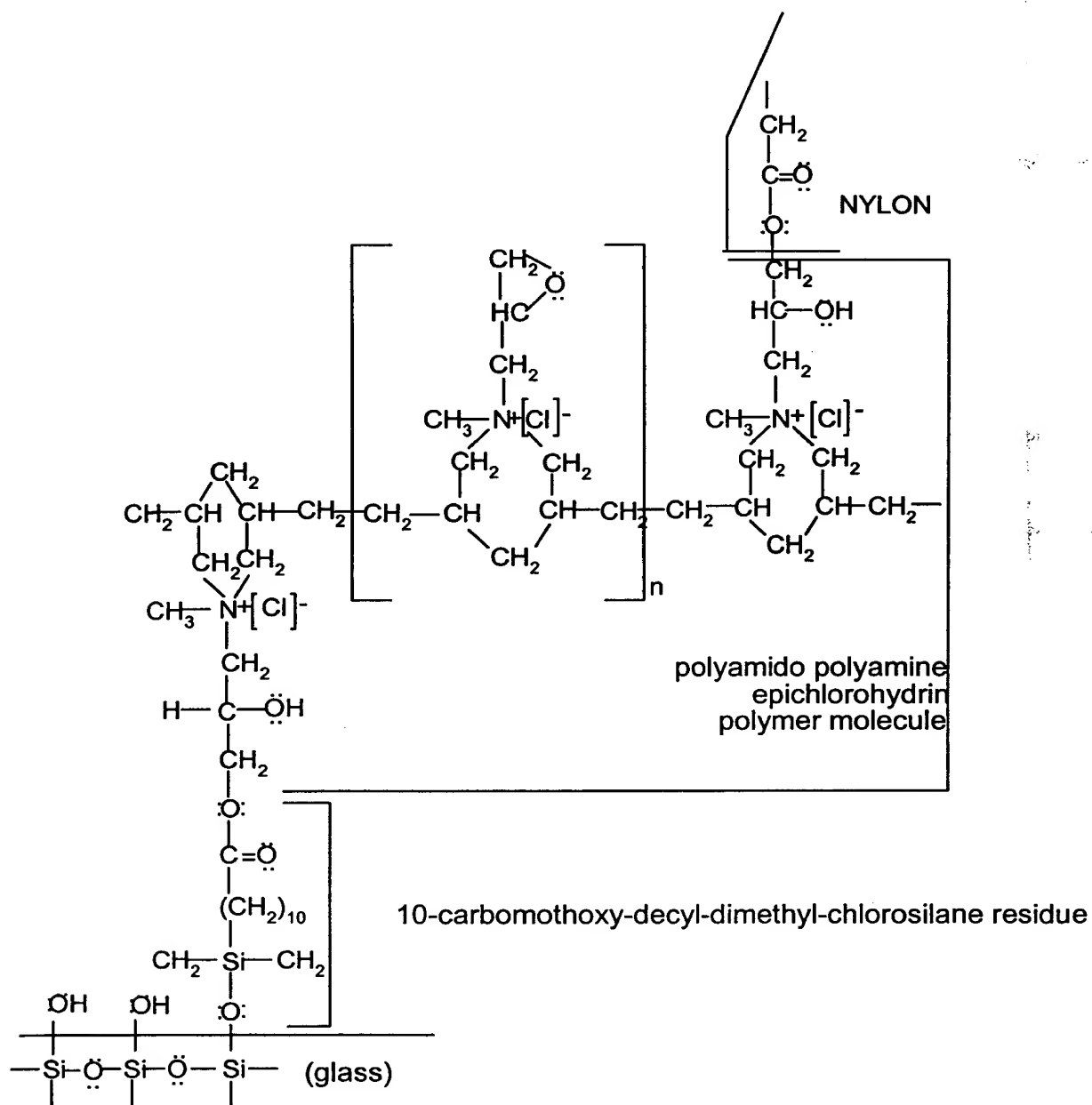
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**FIGURE 5A:** Bond using 3-Amino propyl triethoxysilane and polyamido polamine epichlorohydrin polymer.



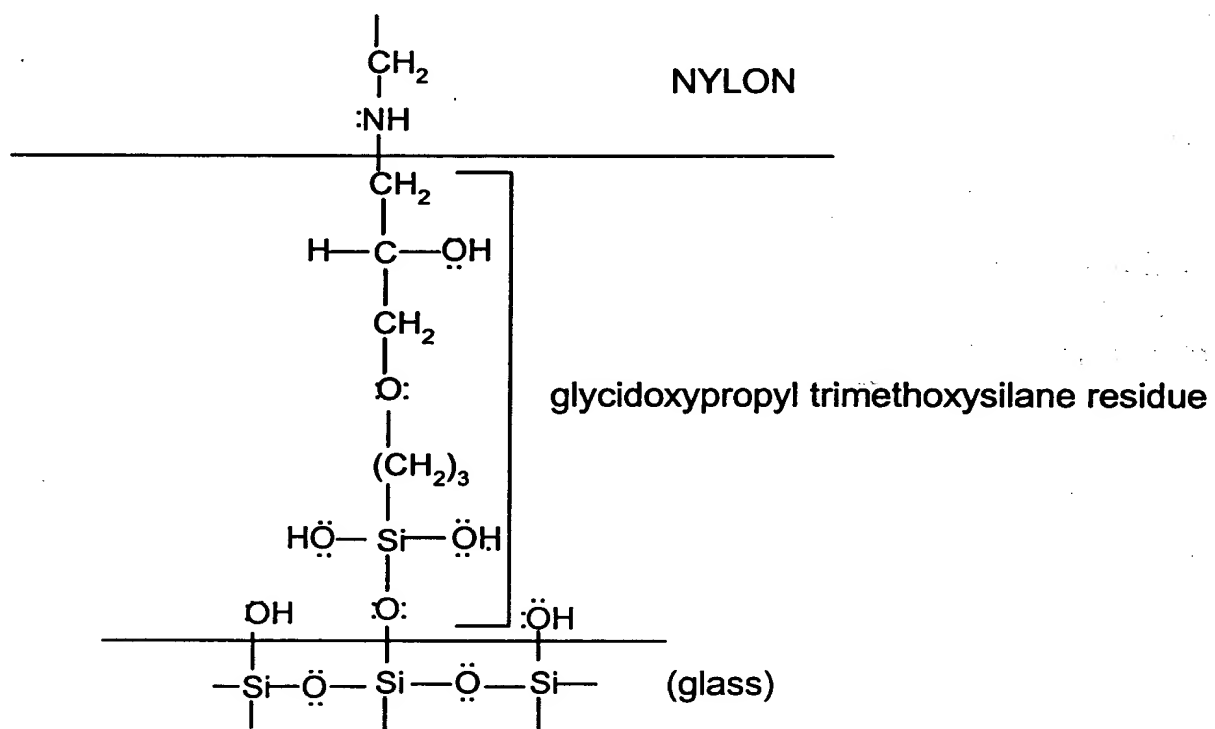
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**FIGURE 5B:** Bond using 10-carbomethoxy-decyl-dimethyl chlorosilane and polyamido polyamine epichlorohydrin polymer.



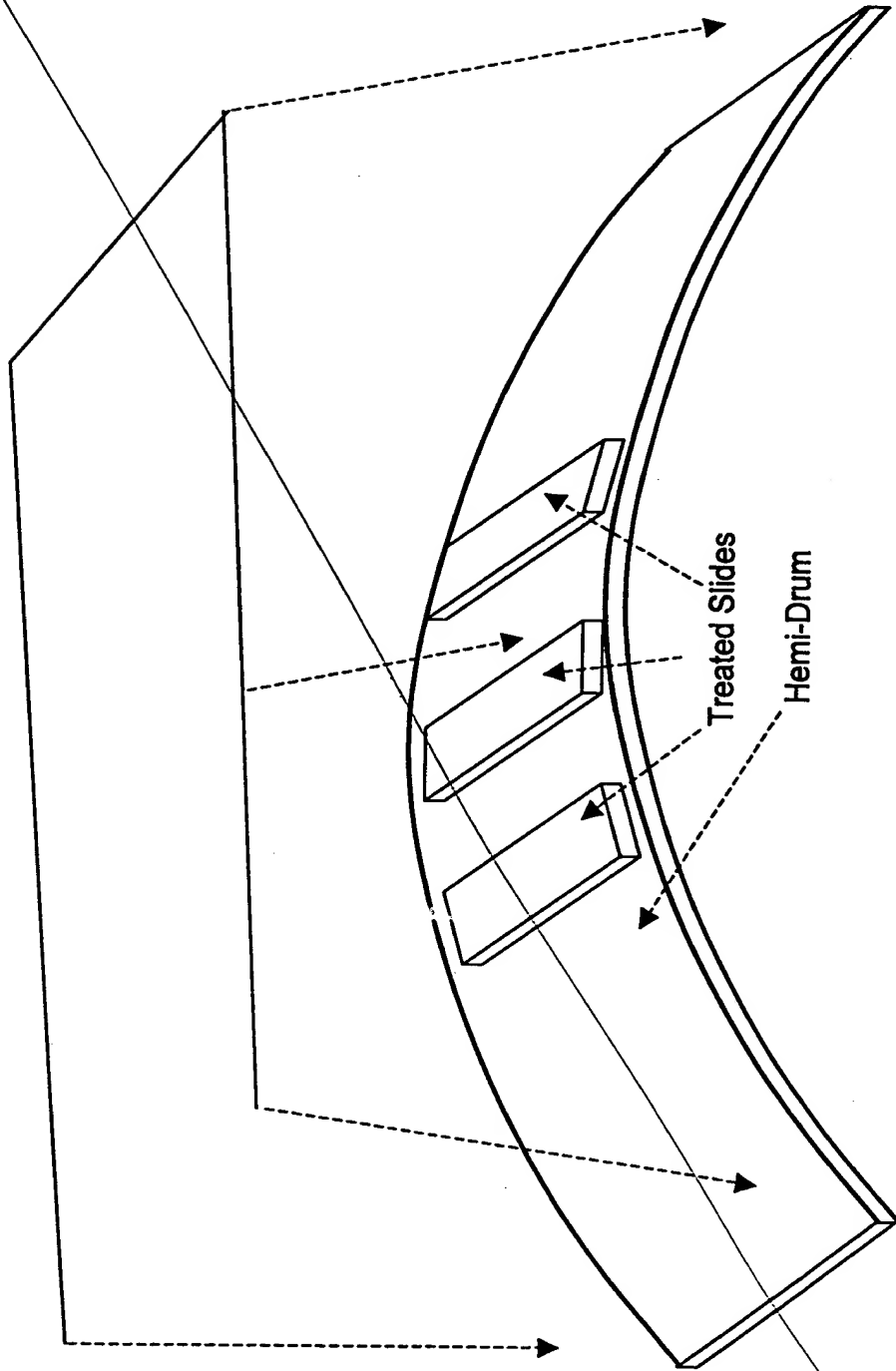
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**FIGURE 5C:** Bond using glycidoxypopyl trimethoxysilane



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Figure 6.



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Figure 7.

